



NOTEBOOK

45-2142

11072 - 11122

111 67+68

3 IN. x 5 IN. 60 SHEETS

A Product of

Westab

Dayton, Ohio 45402

MEAD

A DIVISION OF THE MEAD CORPORATION

Scientific Data.

\$10.⁰⁰/₁₀₀

REWARD

for return to

Arthur Cronquist

New York Botanical
Garden

Bronx Park

Bronx, New York

10458

11072 - 21 July, 1973
Mono Co., California
With Cercocarpus ledifolius
on rhyolitic ridge at
the south side of
Silverado Canyon. Sweet-
water Mts. ca. 75 km.
west of Hawthorne, Nevada.
~~Top~~ ca. Twp. 7 N., R. 4 E.
Elev. ca. 2700 m.
Bracts scarlet to vermilion.

Castilleja applegatei Fern.
var. *pallida* (Eastw.) N. Holmg.

det. Noel Holmgren

Castilleja (8) U. 597

11073 - 21 July, 1973.

Mano Co., Calif. On a
broad, andesitic dike
along the sloping crest
of the rhyolitic ridge
that forms the south
flank of Silverado Canyon,
Sweetwater Mts., ca. 75 km
west of Hawthorne, Nevada.

~~Trwp.~~ Ca. Trwp. 7 N, R.

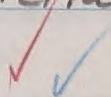
24 E.

Elev. ca. 2900m.

Not seen on the rhyolite.
Stems solitary from a
taproot. Flowers white.

Cirsium utahense Petrak

thistle (C)



11074 - 21 July, 1973

Mono Co., Calif.

Same place as 11073.

Plants not seen on the
rhyolite. Flowers
white, with a small
yellow eye. ♀

Cryptantha nubigena
(Greene) Payson

Nearly mature nutlets
thin-edged, shiny, smooth to
obscurely roughened.

Cryptantha (3)

11075 21 July, 1973.

Mono Co., Calif. Gravelly
saddle on the rhyolitic
ridge that forms the
south flank of Silverado
Canyon. Sweetwater Mts
ca. 75 km west of Hawthorne,
Nevada. ~~F. sp.~~

Ca. Twp. 7 N., R. 74 E.

Elev.: ca. 3100 m.

Stems prostrate. Flowers
achroous, except for
the lavender-tipped wings.
Fruits few and small.

Astragalus lentiginos Dougl.

var. *ineptus* (A. Gray) M. E. Jones

det. R. C. Barneby

Astragalus ④

11076 21 July, 1973.
Mono Co., Calif. Loose,
sloping crest of rhyolitic
ridge that forms the
south flank of Silverado
Canyon. Sweetwater Mts.
ca 75 km. west of Hawthorne,
Nevada. ~~Twp.~~
ca. Twp. 7 N., R. 24 E.
Elev. ca. 3000 m. Heads
yellow, with ca. 30 rays.

Hulsea algida A. Gray

Hulsea (1)

11077 21 July, 1973
Mono Co., Calif. Gravelly
crests of rhyolitic ridges
at the head of Silverado
Canyon. Sierrita Mts.
ca. 75 km. west of Hawthorne,
Nevada. ~~Twp.~~
Ca. Twp. 7 N., R. ~~24~~ 24 E.

Elev. ca. 3100 m.

Inflorences white to
pinkish

Spraguea umbellata Torr.
var. *caudicifera* Gray

Small *Spraguea* (4)

11078 - 21 July, 1973.
Mono Co., Calif. Loose,
gravelly crests of rhyolitic
ridges at the head of Silver-
ado Canyon. Sweetwater
Mts., Ca. 75 km. west of
Hawthorne, Nevada. ~~Twp.~~
Ca. Twp. 7 N., R. 24 E.

Alt. ca. 3000
m. Inflorescences white
to ochroleucous or pinkish.
Stems prostrate

Eriogonum lobbii T. & G.

larger *Eriogonum* (5)

11079 - 21 July, 1973.
Mono Co. Calif.

Same place as 11078,
but elev. ca. 2900m.
Flowers white.

Chaenactis douglasii (Hook.)

H. & A.

var. *montana* M. E. Jones

Chaenactis

(2)

11080 - 21 July, 1973.

Mono Co., California.

Loose, gravelly, rhyolitic,
sloping ridge crest at the
head of Silverado Canyon,
between this and Sweet-
water Canyon. Sweetwater
Mts. ca. 75 km. west of
Hawthorne, Nevada.

~~Twp~~ Co Twp. 7 N., R. 24 E.

Elev. ca. 3200m

Plants fairly abundant
here (not below), but
mostly prostrate.

Drake

(9)

11081. 25 July, 1973

Mono Co., Calif. 11,000 ft.
Scattered Jeffrey pine
on loose, volcanic soil
ca 75 km. northwest of
Bishop and 3 km east of
Highway 395. ~~Twp.~~

Ca. Twp. 25., R. 27E.

Elev. ca 2400 m.

Persistent perennial with
reddish-brown
midrib.

Eriogonum spergulinum Gray
var. *reddingianum* (Jones) J. T.

Howell

Eriogonum
~~*serotinum*~~

(10)

11082 - 28 July, 1973

Manojo Co., Calif. Same place
as 11081.

Petals white, turning
pinkish in age.

Gayophytum heterozygum
Lewis & Szweyk. ✓

Gayophytum

(10)

11083 - 25 July, 1973
With scattered Jeffrey
pine and in completely
open places; pumice flats
between Mono Craters and
the southwest end of
Mono Lake. Truss, 1 N.,
R. 27 or 28 E.

Elev. ca. 2100 m.
Mono Co., Calif.

Plants abundant,
long-lived perennials.
Flowers bluish-purple,
the banner with a large
white spot.

Lupinus duranii Eastw.

Lupinus (11)

11084 - 25 July, 1973
Mono Co., Calif.

Same place as 11083
Plants somewhat mesophytic
Corolla bright pink purple,
the throat deeper crimson
purple, marked with
yellow at the base of
the lower lip.

Mimulus densus Grant
det. Noel Holmgren

Mimulus

(11)

11085 - 25 July, 1973
Mono Co., Calif.

Same place as 11083.
Rays mostly 12-19,
yellow above, usually
somewhat anthocyanic
beneath. Disk yellow.

Hulsea vestita A. Gray

✓

Hulsea



12-19

11086 - 25 July, 1973
Mono Co., Calif.

Same place as 11083.
Corolla yellow, with
red-brown center.

Seeds irregularly
ridged-angled, finely
tessellate-tuberculate

Mentzelia albicaulis
Dougl.

Mentzelia (3)

11087 25-July, 1973.
Mono Co., Calif. Same
place as 11083. Stems
numerous, clustered
on a woody base.
Herbage green and
glabrous. Heads yellow,
with mostly 5 rays.

Senecio spartioides T. & G.

Senecio spart (9)

11088-25 July, 1973
Muno Co., Calif. Same
place as 11083.

Half-shrubs from a
woody base. Heads
decid. yellow. Twigs
of the season mostly
white-tomentose,
seldom glabrous.

Chrysothamnus parryi (A. Gray)
Greene

var. *asper* (Greene) Munz

Chrysothamnus Halper. (5)

11069 - 25 July, 1973
Mono Co., Calif. Same
place as 11083. Plants
few, ~~no~~ mostly sterile.
Inflorescences pinkish.

Spraguea umbellata
Torr.
var. *caudicifera* Gray

³
Spraguea (D)

846

11090 26 July, 1973. Mono
Co., Calif. With Jeffrey
pine, mountain mahog-
any, and sagebrush on
lower north slope of
Glass Mountain, east
of the canyon, in pumice
and obsidian soil.
Ca. Twp. 2 S., R. 29 E.

Elev. ca. 2700 m.

Stems several, clustered
and taproot. Petal blades
white, subequally fissile
fil more than $1/3$ length,
each with a ~~pair~~ pair of
irregularly ~~or~~ few cleft
appendages at the base.

Silene montana Wats.

var. *montana*

Silene 10

11091 26 July, 1973.

Mano Co., Calif.

Same place as 11090

Herbage ^{gray-puberulent} ~~gray-puberulent~~. Root
light yellow. Petals
flecked with blackish-
purple on an ochro-
lucous chlorolucous
background.

Frasera puberulenta
A. Davids.

Frasera (4)

11092 - 26 July, 1973.
Mono Co., Calif. With
Lodgepole pine on summit
and alveolar ridge
at the northeast base of
Glass Mountain, an isolated
mountain between the Si-
erra Nevada and the north-
end of the White Mts.
~~Twp.~~ Ca. Twp. 25.. R.

29 E. Elev. ca 2900 m.
Leaves mostly 25-40, blue-
violet. Species giving
way at higher elevations
on the mountain to *E. pyg-
maeus* (A. Gray) Greene.

Erigeron clokeyi Cronq.

E. clokeyi (2)

11093 - 26 July, 1973
Mono Co., Calif. High on
northeast slopes (rhyo-
lite, pumice, and ob-
sidian) of Glass Mt., an
isolated mountain between
the Sierra Nevada and the
north end of the White
Mts. ~~Twp.~~ Ca. Twp.

2 S., R. 29 E.
Elev. ca. 3200 m.
Flowers blue.

Penstemon speciosus
Dougl. ex Lindl.
det. Noel Holmgren

P. speciosus ①

11094 - 26 July, 1973
Mono Co., Calif.

Same place as 11093.

Petals white, Turning
pinkish in age, shortly
bifid at the tip, each
with a pair of coarsely
and irregularly
few-toothed appendages.

Silene sargentii Wats

Small *Silene* (2)

11095 - 26 July, 1973
Mono Co., Calif. Rhyolite
and pumice northeast
ridge near the summit of
Glass Mt., an isolated
~~the~~ mountain between
the Sierra Nevada and
the north end of the
White Mts. ~~Trans~~ ca Twp.
2 S., R. 29 E.

Elev. ca. 3300 m. Perianth
achroleucous, turning
pinkish in age.

Eriogonum lobbii T. & G.

Eriogonum (10)

11096. 26 July, 1973

Mano Co., Calif.

Same place as 11073

Plants prostrate.

Flowers pink-lavender.

Astragalus monoensis

Barneby

det. R. C. Barneby

Astragalus (7)

11097 - 26 July, 1973
Mano Co., Calif.

Same place as 11095.
Heads yellow.

Raillardella argentea

A. Gray

Raillardella (9)

11098-26 July, 1973.
Mono Co., Calif.
Open, rocky, rhyolite
and pumice summit
of Glass Mt., an isolated
mountain between the
Sierra Nevada and the
north end of the White
Mts. ~~Temp~~ ca. Temp.
25., R. 29 E.
Elev. ~~ca.~~ ca. 3350 m.
Herbage gray-green

Cymopterus cinerarius

A. Gray

Cymopterus (5)

11099-26 July, 1973
Mono Co., Calif.

Same place as 11073
Flowers white.

Gilia congesta Hook.
var. *montana*

(Nels. & Kennedy) Const. &

Rollins
✓✓

Gilia congesta D

11100-26 July, 1973.
Mano Co., Calif.
Same place as 11098.
Flowers white to pink.

Chaenactis douglasii (Hook.) H. & A.
var. *montana* M. E. Jones

Chaenactis d. var. (5)

11101 - 26 July, 1973

Mano Co., Calif.

Same place as 11095

Nutlets strongly rough-
ened on both sides.

Cryptantha humilis (Gray)
Payson

Cryptantha (5)

11102 - 26 July, 1973

Mano Co., Calif.

Same place as 11098.

Plants densely tufted,
without rhizomes

Stipa pinetorum M.E. Jones

~~1~~

Stipa (6)

11103 - 26 July 1973
Mono Co., Calif.
Same place as 11098.
Rays mostly 25-31,
blue-lavender.

Erigeron pygmaeus
(A. Gray) Greene

E. pygmaeus (3)

11104 - 26 July, 1973

Mono Co., Calif.

Same place as 11078.

Plants forming loose
mats. Perianth bright
light yellow.

Eriogonum rosense

Nels. & Kennedy

Eriogonum (6)

11105 - 26 July, 1973.
Mono Co., Calif.

Same place as 11098.

Petals white, broadly
ovate to slightly
notched at the tip.

Stamens 10, styles 3.

Arenaria kingii (Wats.)

M. E. Jones

var. *glabrescens* (Wats.)

Maguire

Arenaria

(6)

11106-2 July, 1973

Mono Co., Calif.

Sagebrush slopes, pumice
and rhyolite soil, overlooking
Benton Springs.

Twp. 2 S., R. 31 E.

Elev. ca. 1800 m.

Much branched, aromatic
shrubs ca. 6-8 dm tall.
Flowers pink-purple to
blue-purple.

Dalea

⑪

11107 - 27 July, 1973

Nye Co., Nevada.

With piñon and juniper
on granitic substrate
at Cherry Creek Summit.

Quinn Canyon Mts.

ca. 155 km. southwest
of Ely, Twp. 4 N., R. 56 or 57
E.

Elev. ca. 2300 m. Perianth
pink to pink-lavender.

Eriogonum racemosum Nutt.

Eriogonum ⁹⁵¹

(12)

11108 - 28 July, 1973

Mye Co., Nevada

Along a ~~road~~ rivulet
in a small limestone
ravine just northwest
of Cottonwood Summit,
with mixed pines, juniper,
Abies, and Cercocarpus.

Quinn Canyon Mts. ca
165 km southwest of Ely.
Twp. 2 N., R. 55 or ~~56~~ E.

Elev. ca. 2300 m. ~~Foliage~~

Foliage very glaucous. Flowers
corolla red and yellow.

Aquilegia shockleyi Eastw.

Calceolaria

②

11109 - 28 July, 1973

Nye Co., Nevada.

Along ^{minor} drainage channel
(narrowing) on open
limestone northeast slope
with piñon, juniper
and Cercocarpus, just
northwest of Cotton-
wood Summit, Quinn
Canyon Mts. ca 165 km.
southwest of Ely, ^{Ca.} Nev.

2 N., R. 55 or 56 E.

Elev: ca. 2300m.

Flowers small, light
pink-lavender, almost white.
Phacelia lemmonii Gray

Veronica 12

14110 - 28 July, 1973
Nye Co., Nevada. Same
place as 11109. Plants
very viscid. Corolla
yellow, ~~some~~
unmarked.

Mimulus floribundus
Dougl. ex Lindl.

det. Noel Holmgren

viscid membranes (7)

11111 - 28 July, 1973.

Nye Co., Nevada.

Same place as 11109.

Corolla yellow, marked
with reddish-brown
on the palate.

Mimulus guttatus DC.

This form has been called
var. *depauperatus* (A. Gray) Grant,
det. Noel Holmgren.

monocoid minor (2)

11112 - 28 July, 1973.

Nye Co., Nevada.

In small, northeast-facing
limestone ravine just
northwest of Cotton-
wood Summit, Quinn
Canyon Mts, ca 165 km,
southwest of Ely, Nev.

2 N., R. 55 or 56 E.

Elev., ca. 2300 m.

Small trees to nearly 15 m.
tall, the bark becoming
rough but not very thick.

Leaves green above, conspic-
uously pale in 2 bands beneath.

Cones ca. 10+ cm. long.

Abies lasiocarpa (Hook.) Nutt., possibly
contaminated by *A. concolor*.
(Note resin ducts in leaves)

Abies (3)

✓

11113 - 28 July, 1973.

Nye Co., Nevada.

Colonies in limestone
cliffs just northwest
of Cottonwood Summit.
Quinn Canyon Mts. ca.
165 km. southwest of
Ely, Trwp. 2 N., R. 55 or 56 E.

Elev. ca 2300 m.

~~Rays~~ Rays mostly 20-30,
blue-lavender.

Erigeron tener A. Gray

E. tener

①

11114 - 28 July, 1973.

Nye Co., Nevada.

Same place as 11112.

Arborescent shrubs
3-4 m. tall.

Acer glabrum Torr.
var. *glabrum* ✓

Acer glabrum (7)

11115 - 28 July, 1973.
Nye Co., Nevada. Same
place as 11112. Prison-
-jumper - Erescypus
area. Flowers pink-
-purple.

Cirsium sp. aff. *C. utahense*
Petra

thistle (4)

16 - 28 July, 1973
Nye Nye Co., Nevada.

Pinyon-juniper slopes
just north of Cotton-
wood Summit.

Quinn Canyon Mts.
~~ca.~~ ca. 165 km. south-
east of Ely, Twp. 2 N.,
R. 56 E.

Elev ca. 2200 m.
Heads yellow.

Petradoria pumila (Nutt.)
Greene

100'

Petradoria (6)

11117 - 23 May, 1970.
Moffat Co., Colorado.

Open piñon-juniper
woodland in sandstone
region along Skull
Creek, a little more than
a mile north of High-
way U.S. 40. Twp 3 N.,
R. 100 W.

Herbage glaucous.

Leaves firm, somewhat
succulent. Flowers
blue.

Penstemon osterhoutii Pennell
det Noel Holmgren

Penstemon (4)

11118 - 22 May, 1970.

Uintah Co., Utah.
With *Artemisia*,
Atriplex etc. on
stony clay hills
9 miles southwest
of Vernal. Twp. 55.,
R. 20E.

Low shrub or subshrub
1-2 dm. tall, often wider
than high. Flowers white,
or faintly lavender out-
side in age, fully open
at dusk when collected,
mildly fragrant, the
plant otherwise inodorous.
Leptodactylon pungens
(Torrey) Nuttall

Leptodactylon (5) 1

11119. 22 May, 1970.
Same place as 11118.
Flowers yellow.
Ovules 2 in each locule,
of the only one maturing.

Physaria australis
(Payson) Rollins

Physaria ①

11120 - 22 May, 1970

Same place as 11118.

Plants apparently
parasitic on sagebrush.
Bracts scarlet, varying
to crimson or
red-vermilion.

Castilleja chromosa
A. Nels.
det. Noel H. Holmgren

Castilleja (5)

11121-22 May, 1970.
Same place as 11118.

Petals rich lavender-
-purple, with a thin
red crescent toward
the top of the basal
yellow spot.

Calochortus nuttallii
Torrey

Calochortus (1)

11122 - 22 May 1970.
Same place as 11118

Penstemon fremontii T. & G.
det. Noel H. Holmgren

Penstemon (6)

1166-12 August, 1974
Clinton Co., NY. Openings
in disturbed second growth
mixed hardwood-hardwood
and northern coniferous
forest, on limestone
substrate, ca 4 km.
northwest of Sciota and
35 km. northwest of
Plattsburg. Elev. ca 100 m.
Stems solitary or paired
from a short, proscumbent
rhizome. Heads yellow.

Utricularia? *Schubertii* (3)

11167 - 12 Aug. 1974
Clinton Co., N.Y. Open
places, especially in moist
soil, in second growth
mixed hemlock-hardwood
and northern coniferous
forest, on limestone
substrate, ca 4 km.
northwest of Sciota and
3.5 km. northwest of
Plattsburg. Elev. ca 100
m. Springily branched
shrubs 6-12 dm. tall.
Flowers pink.

Spiraea tomentosa L. ✓

Spiraea tomentosa (4)

11168 - 12 Aug. 1974,
Clinton Co., N.Y. Shady
place in second growth
mixed hemlock-hardwood
and northern coniferous
forest, on limestone
substrate, ca 4 km,
northwest of Sciota
and 35 km, northwest
of Plattsburg. Elev. ca.
1200 m.

Flowers white.

Dalibarda repens L.

✓

Dalibarda ①



$$\begin{array}{r} 8 \times 40 \\ \hline 320 \end{array} \quad \begin{array}{r} 5 \overline{) 320} \\ \underline{64} \end{array}$$

46

7300 ft total sum.

$$\begin{array}{r} 96 \\ 8 \\ \hline 5 \overline{) 168} \\ \underline{153} \end{array}$$

$$\begin{array}{r} 104 \\ 8 \\ \hline 5 \overline{) 832} \\ \underline{166} \end{array}$$

25-31 pyg. c
23-40 change
9400'



Encasement
7400'
Evaporite
754710

2220



73-4485

Have and prescriptivism

University Microfilms

Ann Arbor, Mich.

South of Lee Vining, in
sagebrush along 395.

A large *Leguminosae* (?)
white fls. ca 50 little
round umbelllets.

Fruit not much compressed,
will have wings all
around. Leaves ~~dissected~~
with ~~the~~ linear segments.
The largest leaves toward
the base. What is it?
- ternate - pinnate lvs.

hollow stem

Hulsea vestita growing
same place.

large

Sprague 3000 m.

Droba 3200 m.

Astragalus 3100 m.

small sprague, 3100 m. +

Bulsa 3000 m. 3000 m.

Chaenactis 2900 m.

Cryptantha 2900 m.

Andersite

thistle same as above

Castilleja 2700 m. -

with Cercocarpus

77694 Hawthorne

77741 - Silverado Canyon

